

IN THE SPECIFICATION

Please replace the paragraph [0041] at page 8, lines 9-14, with the following rewritten paragraph:

[0041] The sixteenth aspect of the invention in connection with the fifteenth aspect is the method of cleaning the object to be cleaned, in which at least a part of the magnetic substance is a magnetic fluid. In such a method, even though there exist concave and convex ~~portion~~ portions on the area to be cleaned, the cleaned object can be easily cleaned by the shearing force (stress) due to the flow of the magnetic fluid, and the adjustment of the cleaning force can be done varying the intensity of the magnetic field.

Please replace the paragraph [0065] beginning at page 13, line 22 to page 14, line 7, with the following rewritten paragraph:

[0065] In the case of the first embodiment, when the concave and convex portions are provided on the inner wall surface 7 of the area to be cleaned for the reason of functioning, only the convex portion of the inner wall surface thereof is rubbed with the magnetic material 4, 4, ... Since the concave portion thereof is not rubbed at all, the portion cannot be cleaned. On the other hand, in case that the magnetic substance 4, 4, ... is the one like fine powder, even though the substance 4, 4, ... is moved by the magnetic field generating device 5, since the powder-state substance cannot sufficiently enter into the fine gap space, there hardly occurs a rubbing function and thereby the cleaning operation cannot be sufficiently performed.

Please replace the paragraph [0070] beginning at page 14, line 21 to page 15, line 5, with the following rewritten paragraph:

[0070] In the third embodiment of the invention, as shown in Fig.3, a polishing agent 12, 12[[], ...]] is contained in the cleaning medium 3 composed of the magnetic fluid 11, etc. The construction ratio of the cleaning medium 3 containing therein the polishing agent 12, 12[[], ...]] is, for instance, almost [[5 ? 40]] 5-40 volume %. It may be allowable to adjust the construction ratio in accordance with the required content of cleaning such as the sort of the cleaned object, etc. As to the polishing agent 12, 12,[[\_c\_c,]] for instance, the media employed for the barrel polishing, etc. can be used. Otherwise, it can be thought to use plastic stone, massive stone, resinoid grinding (polishing) stone, walnut, corn, glass piece, and glass powder, etc.

Please replace the paragraph [0071] at page 15, lines 6-11, with the following rewritten paragraph:

[0071] In the third embodiment, since the cleaning operation is done by the action of the shearing stress due to the flowing of the fluid (magnetic fluid 11), although there is a case of insufficient force of peeling off the dirt in accordance with the usage, if the polishing agent 12, 12[[], ...]] is contained in the cleaning medium 3, the polishing agent 12, 12[[], ...]] reinforces the cleaning force of the magnetic material, and thereby the cleaning operation can be further effectively performed.

Please replace the paragraph [0072] at page 15, lines 12-19, with the following rewritten paragraph:

[0072] Furthermore, it is desirable to use the cleaning medium 3 containing therein the polishing agent 12, 12[[], ...]] in the state of being well agitated. Either one of the non-

magnetic material and the magnetic material can be used as the polishing agent 12. In the case of using the magnetic material, a magnetic force is applied to the magnetic material by the action of the magnetic field 6 generated by the magnetic field generating device 5.

Thereby a force is also applied to the polishing material 12 from the magnetic material. As the result, the cleaning efficiency is further raised. On this occasion, either one of the liquid cleaning medium or the solid-state cleaning medium can be used as the cleaning medium.

Please replace the paragraph [0076] at page 16, lines 15-20, with the following rewritten paragraph:

[0076] Furthermore, when the magnetic fluid 11, etc. is put in the interior, even the cleaned object of comparatively complicated shape can be rubbingly cleaned following the shape of the inner wall surface 7 of the cleaned object 2. By changing the material, the composition, and the thickness of the covering film 13, or by changing, in various ways, the intensity and the direction of the magnetic field generated by the magnetic field generating device 5, various variation can be applied to the cleaning effect.

Please replace the paragraph [0112] at page 26, lines 10-20, with the following rewritten paragraph:

[0112] In the sixteen through twenty-eighth aspects, even though there exist the concave and convex portions, the cleaning operation can be easily done with the shearing stress due to the flow of the magnetic fluid. The cleaning force can be easily adjusted with the strength of magnetic forth force due to the magnetic field. The area to be cleaned is further strongly rubbed with the polishing agent and thereby the cleaning operation can be done effectively. By changing the composition ratio of the polishing agent, the freedom of adjusting the cleaning property may become large. Since the magnetic material as the cleaning medium is

not polluted by the cleaning operation, the material can be repeatedly used and thereby the cost of the cleaning works can be reduced. Other advantageous functional effects as mentioned in the second through fourteenth aspects can be also expected in the sixteenth through twenty-eighth aspects.